

Strengthening Minnesota businesses by maximizing efficiency and lowering costs through energy, water and waste reduction

Internship: Lead a water conservation project at a medical device manufacturer.

Company: Lifecore Biomedical LLC

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior level college student to lead a project focused on water conservation with Lifecore Biomedical in Chaska, MN. Lifecore Biomedical produces medical devices used in ophthalmological surgeries. The intern will work with MnTAP and Lifecore Biomedical staff to develop a facility water balance to identify high water use areas and consider opportunities for water reduction and reuse. The intern will quantify these opportunities and develop recommendations to increase efficiency and outline plans for implementation.

JOB DUTIES:

As part of this project, you will be asked to complete the following tasks:

1. Identify and quantify water uses throughout the facility, including the water purification process and the manufacturing process.
2. Study process steps to consider feasible procedural and equipment changes that would result in water reduction, reuse or recycling.
3. Determine best practices for water purification pre-treatment, including reverse osmosis optimization.
4. Estimate water reduction, reuse and/or recycling potential, as well as costs associated with implementation of recommendations.
5. Prioritize suggested changes using simple payback methods to justify process changes or equipment.
6. As appropriate, initiate approved changes and system upgrades and estimate the performance of upgraded systems.
7. Summarize findings in a detailed report, including recommended procedures and vendor proposals along with an economic analysis and justification of changes.
8. Present findings to the company and at MnTAP-hosted public presentation events.

As an intern, you will work at the company and report back to MnTAP. The position is full time, 40 hours per week, for three months to start after the conclusion of spring semester or quarter. Pay is \$14/hour, with a lump sum stipend of \$1,000 upon completion of the project deliverables: a final report and presentations. Cumulatively, this equates to \$16.00/hour when averaged over the project. Candidates must pass a background check and complete laboratory gown certification.

QUALIFICATIONS:

- Cumulative GPA of at least 3.0
- Good oral & written communication skills
- A technical academic background
- Troubleshooting skills
- Self-motivated
- Excel and other software skills
- Appropriate majors: *Engineering, environmental or physical sciences and others as applicable*

TO APPLY:

Apply online at:

www.mntap.umn.edu/intern/student_apply.htm

Remember to submit your application form, cover letter, resume, and unofficial transcript.

Applications can be addressed to:

Nathan Landwehr, Intern Program Administrator
200 Oak Street SE, Suite 350-1
Minneapolis, MN 55455 • landwehr@umn.edu

MNTAP IS THE HIRING BODY: DO NOT CONTACT THE COMPANY